

Title (en)

Sterilization process and plant for a steam autoclave.

Title (de)

Sterilisierungsverfahren und Anlage für einen Dampfautoklav.

Title (fr)

Procédé et installation de stérilisation pour un autoclave à vapeur.

Publication

EP 0654274 A1 19950524 (EN)

Application

EP 94118123 A 19941117

Priority

- IT MI932462 A 19931119
- IT MI932463 A 19931119

Abstract (en)

The process comprises an initial step involving suction of air from the autoclave, an intermediate step of introducing water into the autoclave and heating said water until a reference pressure (Pr), corresponding to the saturated-steam pressure at the sterilization temperature, is achieved therein, a sterilization step and a final step in which the autoclave is brought back to room pressure (Pa), heating being prolonged until a maximum pressure (Pm) higher than said reference pressure (Pr) is obtained in the autoclave and during said sterilization step at least one bleeding operation being carried out for ejecting air mixed with steam from the autoclave in a manner adapted to bring pressure from said maximum pressure (Pm) to said reference pressure (Pr). The plant comprises a boiler shell (3) forming a chamber (4) adapted to hold the objects to be sterilized, means (5) for controlling temperature and pressure in said chamber (4), water admitting members (16), pumping members (20) connected to said chamber (4) for carrying out suction, and bleeding members (21) adapted to operate a controlled relief when said chamber (4) is under conditions of at least partial pressurization. <IMAGE>

IPC 1-7

A61L 2/06; **A61L 2/24**

IPC 8 full level

A61L 2/07 (2006.01); **A61L 2/24** (2006.01)

CPC (source: EP)

A61L 2/07 (2013.01); **A61L 2/24** (2013.01)

Citation (applicant)

- EP 0492056 A2 19920701 - SIEMENS AG [DE]
- EP 0028542 A1 19810513 - AMERICAN STERILIZER CO [US]
- GB 1072100 A 19670614 - ELECTROLUX AB

Citation (search report)

- [X] EP 0492056 A2 19920701 - SIEMENS AG [DE]
- [X] EP 0028542 A1 19810513 - AMERICAN STERILIZER CO [US]
- [X] EP 0429960 A2 19910605 - SCI CAN [CA]
- [X] US 4759909 A 19880726 - JOSLYN LARRY [US]
- [A] GB 1072100 A 19670614 - ELECTROLUX AB
- [A] EP 0177123 A2 19860409 - AMERICAN STERILIZER CO [US]
- [A] EP 0177119 A2 19860409 - AMERICAN STERILIZER CO [US]
- [A] EP 0015328 A1 19800917 - AMERICAN STERILIZER CO
- [A] US 3494725 A 19700210 - IRONS ALEXANDER S, et al

Cited by

EP1300630A4; EP0742016A3; RU2665369C2; GB2441500A; CN103127538A; CN111701037A; ITMI20111318A1; CN103732261A; JP2015080670A; EP0799637A1; AU717068B2; DE4445054C3; US9737626B2; US9671167B1; WO2009059349A1; WO2013011388A1; WO2017082962A1; EP1450868A1

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